Trying 01082...Open

PLEASE ENTER HOST PORT ID: X

LOGINID: d232mbg

PASSWORD:

TERMINAL (ENTER 1, 2, 3, 4, OR ?): \square 3

Welcome to MESSENGER (APS Text) at USPTO

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* PLEASE USE 305-9000 FOR NEW TELEPHONE NUMBER *

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The APS is available:

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APS is unavailable Thanksgiving Day, Christmas Day, and New Year's Day.

FILE 'USPAT' ENTERED AT 11:02:55 ON 31 MAR 1998

```
string on the P-ATM.
//If the client needs retrieve data from upstream hor (OmniHost, VISA etc), or needs data from a database
                                                             nakes
a TCP stream connection to a servlet.
//This is consistent with the behavior of the network
terminal which would //make the same connection over PPP.
clienTransObject = new Socket (<Host>, <Well known</pre>
//Explained further down under initial client requests
            //Further processing
. . . . .
//Send out host requests
clienTransObject.write (HostRequest);
clienTransObject.read (HostResponse);
IOObject.WriteString (StringIndex + n);.
DETDESC:
DETD (50)
                Initial Client Request Processing
DETDESC:
DETD (51)
The AD runs a T thread (spawned off during startup) that listens on a
well-known socket (e.g. 1112) waiting for initial ClientRequests from
a client application. The T thread processes the ClientRequest to
determine which servlet class needs loading.
DETDESC:
DETD (52)
ClientInitialRequestListener = new ServerSocket (<wellknown</pre>
socket (e.g. 1112)>);
//Wait for initial requests and spawn off server
connSocket = ClientInitialRequestListener.accept();
connSocket.Stream.read (InitialRequest);
Parse (InitialRequest);
HostThread HO = new Thread (connSocket, "class name");
DETDESC:
DETD (53)
 The T thread is a daemon thread and lives as long as the AD lives. When
the client application is downloaded to a Java capable terminal
initial requests arrive over the PPP link.
DETDESC:
DETD (55)
Host Threads (H) service client requests for upstream and
database connectivity. A host thread can make TCP connections
with remote hosts, forward financial transactions originating from the
client application and route the response.
DETDESC:
DETD (59)
```

Consistence in the a server services and no over emphasis. The design the PTS server aims to provide uniform interface to third party client component and server component applet writers to the async dial-up protocol module and the system's TCP/SLIP/PPP stack. This interface comprises a set of Java Classes. DETDESC:

DETD(61)

A uniform upper edge interface for the ModemIO classes permits easy replacement of the implementation. The actual modem handling **code**, for instance, may use the TAPI **client** calls instead of direct Win32 communication calls. Multiple libraries that conform to the same interface allow different link level protocol. . .

DETDESC:

DETD(63)

1. Open an end-to-end async, duplex dial-up connection. The station address (InetAddress as in TCP/IP) is the dial string. Configure upon connection.

DETDESC:

DETD (64)

2. Listen for an incoming dial-up connection. The listen port (analogous to the bound TCP port) is the COM port. In this regard the valid port numbers range from 0-0xFF (which is the maximum number of COM ports allowed in NT). Configure upon initialization.

DETDESC:

DETD (65)

3. Obtain Input and Output streams that re-direct from/to the open ${\bf connection}$.

DETDESC:

DETD (66)

4. Hang-up (close as in TCP/IP) a live connection.

DETDESC:

DETD(70)

Modem Initialization And Methods

```
DETDESC:

DETD(71)
...
sInitString);
public ModemPort (Port objPort, String sInitString);
public ModemPort (String sPortName, String sInitString);
//Methods
public Port getPort();
public boolean connect (String sDialString);
public void disconnect();
public void reset();
public boolean configure (String sCfgStr);
```

```
public boolean configurabM (String sCfgStr);
DETDESC:
DETD (72)
 Programmers must use getPort() to capture a stream and transfer data
over the ModemPort. Configure (String) sends out an AT command and
returns TRUE if the modem returned OK<cr><lf>. configureDM(String)
sends out the same command to the modem when in data mode.
DETDESC:
DETD (74)
The . . . interface and yet avoid conflicts, the package instantiates
its own socket and serversocket objects via constructors that take an
extra parameter (that identifies the lower object that needs to
be instantiated). This is illustrated after the class definition.
DETDESC:
DETD (76)
The . . . that corresponds to the machines TCP/IP address. The async
dial-up line may however use multiple COM ports to open a connection
with the host. Heuristically, it may seem that fitting the TCP/IP
host/machine address into the native COM support library will.
host name (as a String) will, instead, be overloaded. This value will now
refer to a dial String that identifies the remote station address.
DETDESC:
DETD (77)
              Socket Initialization And Connection
DETDESC:
DETD(84)
BOOL ConfigureDevice (HANDLE hDev, DCB * pNewDCB);
CLAIMS:
CLMS (1)
Having . . . what we claim as new, and desire to secure by letters
patent is:
 1. A distributed computer system including a {f client} terminal and a
server which communicate via a network, comprising:
 (a) the client terminal initiating connection to the
  server utilizing the network;
 (b) the server responding to the initial connection by
 transmitting an enquiry message to the client terminal;
 (c) the client terminal responding to the enquiry message with a
 message comprising identification information indicative of the
  client terminal being a network terminal or a non-network terminal
  and identifying a client application the client terminal
  requires;
 (d) the server receiving and analyzing the identification
  information to determine if the client terminal is a network
  terminal or a non-network terminal; and
```

(d1) if the client terminal is a network terminal, then the

client loader on the server starts the client application, if necessary, on the client terminal utilizing the region starts a server application to service future request from the client terminal; and

(d2) if the client terminal is a non-network terminal, then the server initiates the client application and server application on the server for processing the client application at the server for the client terminal.

CLAIMS:

CLMS(2)

2. The distributed computer system as recited in claim 1, wherein the start of the **client** application entails a, **download** of the **client** application to the **client** terminal.

CLAIMS:

CLMS (3)

3. The distributed computer system as recited in claim 1, in which the **client** terminal communicates to the **server** utilizing a dial-up network **connection**.

CLAIMS:

CLMS (4)

4. The distributed computer system as recited in claim 1. wherein the identification information comprises configuration characteristics of the client terminal.

CLAIMS:

CLMS (5)

5. The distributed computer system as recited in claim 1, wherein the network terminal executes Java code on the network terminal.

CLAIMS:

CLMS(6)

6. The distributed computer system as recited in claim 1, wherein the same client application is executed on the server and the client terminal.

CLAIMS:

CLMS(7)

7. The distributed computer system as recited in claim 1, wherein the non-network terminal receives commands from the **client** application on the **server**.

CLAIMS:

CLMS(8)

8. The distributed computer system as recited in claim 1, including means for passing a **client** application request to another **server** to process the request.

CLAIMS:

- 9. A method for distinguiting computing between a server and a client terminal which communicate via a network, comprising the steps of:
 - (a) initiating connection of the client terminal to the server utilizing the network;
 - (b) responding to the initial connection request at the server by transmitting an enquiry message to the client terminal;
 - (c) responding to the enquiry message at the client terminal with a message comprising identification information indicative of the client terminal being a network terminal or a non-network terminal and identifying a client application the client terminal requires;
 - (d) receiving and analyzing the identification information at the server to determine if the client terminal is a network terminal or a non-network terminal; and
 - (d1) loading a server application if the client terminal is a network terminal, which starts the client application if necessary, on the client terminal utilizing the network and starts a server application to service future requests from the client terminal; and
 - (d2) loading a **server** application on the **server**, if necessary, which **initiates** a **client** application on the **server** for processing the **client** application at the **server** on behalf of the **client** terminal, if the **client** terminal is a non-network terminal.

CLAIMS:

CLMS (10)

10. The method as recited in claim 9, wherein the start of the client application entails a download of the client application to the client terminal.

CLAIMS:

CLMS (11)

11. The method as recited in claim 9, including the step of communicating between the **client** terminal and the **server** utilizing a dial-up network **connection**.

CLAIMS:

CLMS (12)

12. The method as recited in claim 9, wherein the **identification** information comprises **configuration** characteristics of the **client** terminal.

CLAIMS:

CLMS (13)

13. The method as recited in claim 9, wherein the network terminal executes Java code on the network terminal.

CLAIMS:

CLMS (14)

14. The method as recited in claim 9, wherein the same client application is executed on the server and the client terminal.

CLMS (15)

15. The method as recited in claim 9, wherein the non-network terminal receives commands from the **client** application on the **server**.

CLAIMS:

CLMS (16)

16. The method as recited in claim 9, including the step of passing a **client** application request to another **server** to process the request.

CLAIMS:

CLMS (17)

- 17. A computer program embodied on a computer-readable medium for enabling a distributed computing system, including a **client** terminal and a **server** which communicate via a network, comprising:
 - (a) a code segment for initiating connection of the client terminal to the server utilizing the network;
 - (b) a code segment for responding to the initial connection request at the server by transmitting an enquiry message to the client terminal;
 - (c) a code segment for responding to the enquiry message at the client terminal with a message comprising identification information indicative of the client terminal being a network terminal or a non-network terminal and identifying a client application the client terminal requires;
 - (d) a code segment for receiving and analyzing the identification information at the server computer to determine if the client terminal is a network terminal or a non-network terminal; and
 - (d1) a code segment for loading a server application if the client terminal is a network terminal, which starts the client application if necessary, on the client terminal utilizing the network and starts a server application to service future requests from the client terminal; and
 - (d2) a code segment for loading a server application, if necessary, on the server which initiates the client application on the server for processing the client application at the server on behalf of the client terminal, if the client terminal is a non-network terminal.

CLAIMS:

CLMS (18)

18. The computer program as recited in claim 17, wherein the start of the **client** application entails a **download** of the **client** application to the **client** terminal.

CLAIMS:

CLMS (19)

19. The computer program as recited in claim 17, including a code segment for communicating between the client terminal and the server utilizing a dial-up network connection.

CLAIMS:

CLMS (20)

20. The computer program as recited in claim 17, wherein the identification information comprises configuration characteristics of the client terminal.

CLAIMS:

CLMS (21)

21. The computer program as recited in claim 17, wherein the network terminal executes Java code on the network terminal.

CLAIMS:

CLMS (22)

22. The computer program as recited in claim 17, wherein the same client application is executed on the server and the client terminal.

CLAIMS:

CLMS (23)

23. The computer program as recited in claim 17, wherein the non-network terminal receives commands from the **client** application on the **server**.

CLAIMS:

CLMS (24)

24. The computer program as recited in claim 17, including a **code** segment for passing a **client** application request to another **server** to process the request.

CLAIMS:

CLMS (25)

25. The computer program as recited in claim 17, including a **code** segment for making a dial up **connection** appear to the **server** as a socket **connection**.

=> d his

terminal session to a user of the client system. The emplator is operable to download applet code to a client system in response to receiving a uniform resource locator associated with the legacy host system.

DETDESC:

DETD(9)

Client . . . to communicate with a legacy host system across a persistent TCP/IP socket connection 30. Client thread 28 is operable to interface between TCP/IP environment 14 and public Internet/intranet environment 16. Applet process 42 executes under web browser 38 and is operable to communicate with client thread 28 across persistent TCP/IP socket connection 44. In one embodiment of the present invention, client thread 28 and applet process 42 using a web/emulator data flow. Applet process 42 is further operable to provide a terminal session to a user of the client system 36. The terminal session can comprise a 3270, 5250, NVT or VT220 type terminal session. This terminal session provided by applet process 42 and client thread 28 is supported by a persistent TCP/IP socket connection which allows real-time time bidirectional communication. . .

DETDESC:

DETD(10)

In one embodiment of the present invention, the applet process uses three threads to implement the terminal session. The applet process uses a READ thread, a WRITE thread and an EMULATION thread. The READ thread provides a buffer interface to persistent TCP/IP socket connection 44 and reads information from the socket. The WRITE thread provides a buffer interface to persistent TCP/IP socket connection 44 and writes to the socket. The EMULATION thread provides the user interface representing the terminal session on the legacy host system. In this embodiment, the applet process and the client thread communicate using a web/emulator data flow based upon the communication protocol that is set forth in APPENDIX A.

DETDESC:

DETD(12)

The . . . 18 and UNIX host system 19 through web browser 38 without the need for specialized emulation software to be manually loaded on each client system 36 and without the need for user programming. Web/emulator server 26 downloads applet code 34 to client system 36 when the uniform resource locator (URL) of the legacy host system is selected by the user. This is accomplished automatically without requiring service personnel to load software on client system 36.

DETDESC:

DETD (19)

The . . . as 3270, 5250, NVT and VT220 type terminal sessions. According to the present invention, terminal emulation is partially provided by applet executable code downloaded from the web/emulation server. The user can select the uniform resource locator (URL) of the legacy host system via a web browser package, such as NETSCAPE's NETSCAPE NAVIGATOR, and transparently receive the applet code which is executed and invokes an appropriate terminal session.

```
CLAIMS:
CLMS(1)
What . . .
legacy host system, comprising:
a client thread operable to communicate with a legacy host system across
 a first persistent connection; and
applet code operable to create an applet process executing under
 a web browser on a client system, the applet process operable
 to communicate with the client thread across a second persistent
 connection and to provide a terminal session to a user of the
 client system;
the server operable to download the applet code to a
 client system in response to receiving a uniform resource locator
 associated with the legacy host system;
wherein the client thread is operable to communicate using a TN3270 data
  flow and the applet process is operable to provide a 3270 type
  terminal session.
CLAIMS:
CLMS(6)
          . legacy host system, comprising:
a client thread operable to communicate with a legacy host system across
 a first persistent connection; and
applet code operable to create an applet process executing under
 a web browser on a client system, the applet process operable
 to communicate with the client thread across a second persistent
 connection and to provide a terminal session to a user of the
 client system;
the server operable to download the applet code to a
  client system in response to receiving a uniform resource locator
 associated with the legacy host system;
wherein the client thread is operable to communicate using a TN5250 data
  flow and the applet process is operable to provide a 5250 type
  terminal session.
CLAIMS:
CLMS(7)
         . legacy host system, comprising:
a client thread operable to communicate with a legacy host system across
 a first persistent connection; and
applet code operable to create an applet process executing under
 a web browser on a client system, the applet process operable
 to communicate with the client thread across a second persistent
  connection and to provide a terminal session to a user of the
 client system;
 the server operable to download the applet code to a
  client system in response to receiving a uniform resource locator
 associated with the legacy host system;
wherein the client thread is operable to communicate using a NVT data
  flow and the applet process is operable to provide a NVT type
  terminal session.
CLAIMS:
CLMS(8)
8. . . legacy host system, comprising:
```

a client thread operable to communicate with a legacy host system across

a first persistent connection; and

applet code operable create an applet process executing under
a web browser on a creat system, the applet process operable
to communicate with the client thread across a second persistent
connection and to provide a terminal session to a user of the
client system;

the **server** operable to **download** the **applet code** to a **client** system in response to receiving a uniform resource locator associated with the legacy host system;

wherein the client thread is operable to communicate using an VT220 data flow and the applet process is operable to provide a VT220 type terminal session.

US PAT NO:

5,742,768 [IMAGE AVAILABLE]

L19: 20 of 25

ABSTRACT:

A method for providing a web page (26) having an embedded menu (46) to a web browser (24) and for displaying the web page (40) to a user of the web browser (24) are provided. A request for a web page (20) is received from a web browser (24). In response to the request, a web page (26) and an applet (28) associated with the web page (20) are packaged for transmission to the web browser (24). The web page (26) and the applet (28) are then transmitted to and downloaded by the web browser (24). When the web page (26) is displayed and the applet (28) is executed by the web browser (24), the applet (28) creates and manages an embedded menu (46) in the displayed web page (40) under control of the applet (28). This embedded menu (46) provides a user of the web browser (24) with a plurality of links (48) through one action in the displayed web page (40).

ABSTRACT:

A . . . (26) having an embedded menu (46) to a web browser (24) and for displaying the web page (40) to a user of the web browser (24) are provided. A request for a web page (20) is received from a web browser (24). In response to the request, a web page (26) and an applet (28) associated with the web page (20) are packaged for transmission to the web browser (24). The web page (26) and the applet (28) are then transmitted to and downloaded by the web browser (24). When the web page (26) is displayed and the applet (28) is executed by the web browser (24), the applet (28) creates and manages an embedded menu (46) in the displayed web page (40) under control of the applet (28). This embedded menu (46) provides a user of the web browser (24) with a plurality of links (48) through. .

SUMMARY:

BSUM(11)

According to another aspect of the present invention, a method for displaying a web page having an embedded menu to a **user** of a web browser is provided. This method includes **downloading** a web page and an **applet** from a web **server**. The web page is then displayed to a **user** of the web browser, and the **applet** is executed by the web browser. An embedded menu is created and managed in the displayed web page under control of the **applet**. This embedded menu provides a user of the web browser with a plurality of links through one action in the.

DETDESC:

DETD(4)

In . . . 18 can receive the request from web browser 24 and, in response, can package and transmit web page 26 and applet 28 to web browser 24 across IP network 16. Web server 18 packages web page 26 and

applet 28 based upon web page 20 and applet 22 stored on host system 12. After downly ing web page 26 and applet 28, browser 24 can display be page 26 to a user of client system 14 and can execute applet 28. Applet 28 only needs to be downloaded once and is executed by web browser 24. When a link is selected in web page 26, web server 18. . .

DETDESC:

DETD(7)

Display window 30 includes a displayed web page, indicated generally at 40, which is generated by web browser 24 from the **downloaded** web page 26 and associated **applet** 28. Displayed web page 40 provides the **user** of web browser 24 with the information content accessed from web **server** 18. The **user** generally interacts with display window 30 and displayed web page 40 using a pointer device (e.g., a mouse) which controls the position of a pointer 42 and allows a **user** to initiate actions (e.g., through a mouse click). According to the teachings of the present invention, displayed web page 40 includes a plurality of hot spots 44 that provide access to embedded menus created and managed by **applet** 28. The embedded menus can be accessed by positioning pointer 42 over one of hot spots 44.

CLAIMS:

CLMS (9)

9. A method for displaying a web page having an embedded menu to a user of a web browser, the method comprising:

downloading a web page and an applet transmitted by a web server;

displaying the web page to a user of the web browser; and executing the applet, the applet creating and managing an embedded menu in the displayed web page under control of the applet, the embedded menu providing a user of the web browser with a plurality of links through one action in the. . .

US PAT NO: 5,729,594 [IMAGE AVAILABLE] L19: 21 of 25

ABSTRACT:

A remote communication system for facilitating secure electronic purchases of goods in on-line, wherein a suitable local user input device in association with a data transmission system, couples the user input into a packet network system for communication to a remote receiver/decoder apparatus to TRY a potentially desired product. Upon selection of the desired product by the user, a telcom network link is used to communicate a telephone number associated with the desired product from the user to the remote receiver to allow the user to BUY the desired product. The telcom network used to link the user input device to the remote apparatus may also include a 900 number billing system for assessing and collecting fees for use of the system.

DETDESC:

DETD (63)

The . . . Window event processing allows the plug-in to respond to mouse clicks in the plug-in window. In FIG. 9, assume the user clicks on the ESC button 122. This button should close the Netscape Navigator window 120, cancel the operations, and return to the Netscape Navigator. Assume the user clicks on the TRY button 124. The action to be taken will depend upon the form of the product information. . . the simplest case, a URL 126 allows the Netscape Navigator to retrieve and display the product information. Alternatively, a JAVA applet may be

downloaded and executed or an application-to-application procedure may be executed by the ug-in "TRY" process. Thus, the ssible responses to selections. . .

US PAT NO: 5,706,502 [IMAGE AVAILABLE] L19: 22 of 25

ABSTRACT:

A portfolio management system (PMS) is disclosed that allows users to manage, create, edit, debug and compile software portfolios that can include several different types of components, or projects. For example, projects can be Java applets, standalone executable programs, image files, Java class libraries or remote Java applets. The software portfolios and/or their constituent projects can be stored on the system hosting the portfolio management system or on any remote system that can be accessed via the Internet using standard Internet communications protocols, such as FTP or HTTP. The PMS includes portfolio files, each of which includes links to the projects that compose a portfolio and project files that set out the attributes of one project. The PMS also provides portfolio methods that allow users to create, choose, import and remove entire portfolios and project methods that allow users to create, import, choose, edit, remove, run, copy and paste projects. The contents of a particular portfolio or project file determines how the PMS implements the aforementioned methods. For example, if a user wants to import a portfolio from a remote system, the PMS invokes an integrated Web browser, which downloads the desired portfolio onto the local system. The PMS also allows users to publish portfolios and projects on the Internet to be used by others within certain limits set by the publisher. For example, the publisher can restrict copying of source programs while allowing copying of executables.

SUMMARY:

BSUM(8)

Important . . . result, Java language programs cannot create object pointers and generally cannot access system resources other than those resources which the **user** explicitly grants it permission to use. Consequently, when one or more **code** fragments are downloaded to a **client** along with an associated form or image file, a Java-compatible browser running on the client will be able to verify and execute the **downloaded** code fragments needed to display the image or fill out the forms. However, no Java-compatible browser provides any kind of programming environment; instead, browsers are strictly directed to end users browsing existing HTML files and using the referenced Java applets and image files.

DETDESC:

DETD(3)

Details . . . an application called the Java Workshop (JWS) program 150A, which, among other things, allows users to organize executable programs (Java applets and standalone executables) and non-executable files (image files and Java class libraries) into collections called portfolios. In a major departure from the prior art in the area of program and file managers, the JWS program 150A has an integrated JWS Browser 154A that allows a user seamlessly to create and work with portfolios that are remote (stored apart from the user's machine or local network) or local. Furthermore, the JWS browser 154A allows portfolios to be assembled that are mixtures of local and remote "projects".

DETDESC:

DETD(5)

The user interface of present invention facilitate ser interaction with mixed edjects, such as a portfolio consisting of both local and remote projects, by providing a single paradigm for working with all objects regardless of the objects' locations. Of course, there are differences between working with remote and local objects. For example, executing a Java applet stored on a remote computer is a vastly different task from executing a standalone program stored locally. These differences are handled in the JWS program 150A. However, the user interface of the present invention allows a user to initiate the execution of the remote applet or the local program in the same way (e.g, by double-clicking an icon representing the applet). How the user interface of the present invention provides this location-transparency flexibility is now described in reference to FIG. 1.

DETDESC:

DETD(8)

Each . . . neither will this application. As with the links 118Ai, the references 124Ai in the Web documents 120A can be to **remote** or local files. In either case, they are handled by the JWS browser 154A in the same manner as described for the links 118Ai. One significant advantage of the present **user interface** is that a reference 124Ai can be to a Java **applet** 140Ai that is responsible for handling the operations associated with the icon IAi whose related Web document referenced the **applet** 140Ai. In this situation, when the JWS browser 154A retrieves the web document 120Ai linked to a selected icon IAi, . .

DETDESC:

DETD (25)

For . . . there is shown a portfolio file 160A1 that contains project file references 162A1j for its constituent projects, which include an "Applet", a "Standalone" program, a Java "Package", an "Image" and a "Remote" applet, all of which are local projects stored in the user's "home" (i.e., local) directory in the memory 106A. Because these projects are all stored in the user's "home" directory, they can be read and written by the user and their corresponding project files can be referenced by path and file name. For example, the reference 162A1a to the applet project file 170A1 is "/home/Applet.prj". The portfolio file 160A1 also includes a reference 162A1f (/lib/SemiRemote.prj) to a project file for a read-only project ("SemiRemote") stored. . .

DETDESC:

DETD(41)

A user can create a Java applet project, a standalone program project, a Java package project, an image project or a remote project. To create any of these projects, the user first "Chooses" the portfolio with which the project is to be associated and selects the "Create" option from the Project. . .

DETDESC:

DETD (42)

In some situations (when the project being created is an applet, standalone program or Java package) the user may also have access to source code for the newly-created project. In these situations,

the user enters the file names of the corresponding source files on the Project->Create page 47A2a. The JWS 150A adds these purce. . . file names to a "Source list maintained in the memory oA so the source files can be accessed by the user (e.g., for editing and compilation). The user also enters the name of the main file for the program (i.e., the file that contains the "main" routine) of which the newly created project is a part. When the project being created is a Java applet, it is possible that the Java applet is referenced in an HTML page so that, when the applet's reference is selected, the applet will be executed. The JWS 150A allows such relationships to be represented via a Run Page URL field in the. . .

DETDESC:

DETD (50)

A user can then run the remote applet by selecting its name from the Project->Run submenu 147A2f or by loading the Portfolio Manager, selecting the remote project and then pressing the Run button IA7 on the toolbar 160. The Project->Run method 146A2f then passes the URL of the Web page referenced in the run page URL field (e.g., 184A5) of the remote applet project file (170A5) to the Web browser 154A, which downloads the referenced Web page (http://C.com/RunApplet2.htm) and runs the remote applet (Applet2).

CLAIMS:

CLMS (19)

19. .

attributes including a project type name and location, said project type being selected from a predefined set of values including applet and at least one of standalone program, Java package, image file and remote applet;

writing said attributes to a new project file having a project file name and location that are derived from said project name and location; when said project type is selected from said applet, standalone program or Java package values:

enabling said user to enter source code links to source code files associated with said new project; and writing said source code links to said new project file: and

writing said source **code** links to said new project file; and writing into a particular portfolio file associated with a particular portfolio of which. . .

CLAIMS:

CLMS (20)

20. . . of claim 19, further comprising the steps of: when said project type is entered by said user as said remote applet value, enabling said user to enter a project URL identifying a remote applet and a run page URL identifying the URL of an HTML page that includes an applet tag referencing said remote applet; and

writing said project URL and run page URL to said new project file; so that, when a **user** runs said new project using said run method, said HTML page **identified** by said run page URL is **downloaded** to and executed by said local computer, which, under control of said executing HTML page, **downloads** and runs said **remote applet**.

US PAT NO: 5,691,897 [IMAGE AVAILABLE] L19: 23 of 25

ABSTRACT:

A system for motion control in which an application is developed that is

independent from the actual motion control hardware used to implement the system. The system composes a software system that empty an application programming interface comprising component functions and a service provider interface comprising driver functions. A system programmer writes an application that calls the component functions. Code associated with the component functions relates these functions to the driver functions. A hardware designer writes driver code that implements the driver functions on a given motion control hardware product. The driver functions are separated into core and extended driver functions. All software drivers implement the core driver functions, while the software drivers need not contain code for implementing the extended driver functions. If the software driver does not contain code to implement an extended driver function, the functionality of the extended driver function is obtained through a combination of core driver functions. The system programmer may also select one or more streams that allow the control commands to be communicated to, and response data to be communicated from, motion control hardware.

DETDESC:

DETD(36)

Referring again for a moment to FIG. 1, this Figure illustrates that the system 22 additionally comprises a driver administrator CPL applet 38 and a DDE server 40. The driver administration CPL applet 38 generates the user interface through which the user 24 communicates with the driver administrator module 32. The DDE server 40 provides the software interface through which the application program 26 communicates with the motion control component module 35.

DETDESC:

DETD (157)

The driver administrator CPL module 38 provides the user-interface that allows the user to add, configure, and remove drivers and streams in the system 22. The driver administrator 32 handles all driver and stream management. Even though the control panel applet provides the user-interface, this module 32 does the actual management work.

DETDESC:

DETD (198)

The following discussion describes the module interaction map for the control panel applet 38. A module is defined as either an executable binary, an external data file, or a main user-interface element used when interacting with the user. FIG. 51 is a drawing of all modules that interact with each other when running the driver administrator control panel applet.

US PAT NO: 5,572,648 [IMAGE AVAILABLE] L19: 24 of 25

ABSTRACT:

Method and apparatus for changing a dynamic tool palette in accordance with a current context of an application includes providing a static display of windowing functions and a dynamic display of windowing functions wherein the dynamic display is altered in accordance with a current context of an application. In the invention, the application is executed and the context of the application is registered with a context memory. The registered context is examined and a determination is made as to the applicable windowing functions associated with the registered context. In accordance with the determination result, the dynamic display is modified.

DETDESC:

DETD(7)

In operation, upon selecting the folder applet, the applet for that function is downloaded from a file server and stored in a random access memory (RAM) from where it can be executed. After the folder applet is downloaded from the file server, its context which includes a program handle and database identification number is registered with a context manager applet 21. In the present invention, context manager 21 resides as part of the static tool palette display applet 20. However, context manager 21 may also be a separate applet which operates throughout the present program.

DETDESC:

DETD (23)

Upon . . . both the static and dynamic tool palettes are displayed on monitor 2 in step S900. In step S901, a container applet is selected in order to create a container for holding data. Upon selecting a container applet, the container applet is downloaded from the file server and stored in a RAM location for execution. The context of the container applet which contains the container's handle and database identification is registered with context manager 21 in step S902. After the container context has been registered and the container created, an editor applet is selected and executed in step S903. At this point, the editor applet examines the context of the current container which is stored in context manager 21. In step S903, the editor applet. . .

US PAT NO: 5,548,745 [IMAGE AVAILABLE] L19: 25 of 25

ABSTRACT:

A method and apparatus for defining a context environment of an editor applet which is processing data to be stored in a container applet. In the invention, a first applet is executed and the context environment indicative of the first applet is stored. A second applet is executed and examines the stored context environment indicative of the first applet. In accordance with the result of the examination, the second applet modifies its operation.

DETDESC:

DETD(7)

In operation, upon selecting the folder applet, the applet for that function is downloaded from a file server and stored in a random access memory (RAM) from where it can be executed. After the folder applet is downloaded from the file server, its context which includes a program handle and database identification number is registered with a context manager applet 21 shown in FIG. 6. In the present invention, context manager 21 resides as part of the static tool palette display applet 20. However, context manager 21 may also be a separate applet which operates throughout the present program.

DETDESC:

DETD(23)

Upon . . . both the static and dynamic tool palettes are displayed on monitor 2 in step S900. In step S901, a container **applet** is selected in order to create a container for holding data. Upon selecting a container **applet**, the container **applet** is **downloaded** from the

(3) **Downloads** an **applet** (e.g., answering machine software) to new node 100 and installs it in the appropriate directly.

DETDESC:

DETD(824)

New . . . the remote confidence test, new node 100 sends CTS 5104 an appropriate acknowledgement/failure message (step 5308). CTS 5104 may then download a free applet onto new node 100 (step 5310), which installs the applet (step 5312). A purpose of the free applet is to encourage new users to register their nodes. After CTS 5104 disconnects (step 5314), CTS 5104 deposits the registration. . .

DETDESC:

DETD(839)

After . . . confidence test was passed and the CTS.sub.-- Status variable is set to the value CTS.sub.-- PASSED (step 5516). The free applet is then downloaded to the new node 100 and a message is sent to instruct the new node 100 to hang up (step. . .

=> d his

(FILE 'USPAT' ENTERED AT 11:02:55 ON 31 MAR 1998)

L1 19 S APPLET

L2 1 S CONFIGURATION (30A) L1

L3 11 S DOWNLOAD? (30A) L1

=> s applet and servlet

19 APPLET

0 SERVLET

L1 0 APPLET AND SERVLET

=> s java

L2 126 JAVA

=> s javascript

L3 1 JAVASCRIPT

=> d

1. 5,572,643, Nov. 5, 1996, Web browser with dynamic display of information objects during linking; David H. Judson, 395/200.48; 379/89; 707/531 [IMAGE AVAILABLE]

=> d ab

US PAT NO:

5,572,643 [IMAGE AVAILABLE]

L3: 1 of 1

ABSTRACT:

A method of browsing the Worldwide Web of the Internet using an HTML-compliant client supporting a graphical user interface and a browser. The method begins as a web page is being displayed on the graphical user interface, the web page having at least one link to a hypertext document preferably located at a remote server. In response to the user clicking on the link, the link is activated by the browser to thereby request downloading of the hypertext document from the remote server to the graphical user interface of the client. While the client waits for a reply and/or as the hypertext document is being downloaded, the browser displays one or more different types of informational messages to the user. Such messages include, for example, advertisements, notices, messages, copyright information and the like.